

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP03/00085 10/519010
PCT/EP 00085 21 DEC 2004

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H02K1/14 H02K33/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02K F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 318 412 A (LASKARIS ET AL.) 7 June 1994 (1994-06-07) column 1, line 67 -column 2, line 22 column 3, line 6-15; figure 2 ---	1,2,6-9, 12-15
X	US 6 077 054 A (LEE ET AL.) 20 June 2000 (2000-06-20) abstract column 1, line 40 -column 2, line 50 column 3, line 58-67; figures 1,2,4 ---	1,12
A		15
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 10, 10 October 2002 (2002-10-10) -& JP 2002 171740 A (LG ELECTRONICS INC), 14 June 2002 (2002-06-14) abstract; figures 1,2,5 ---	1,12,15
	-/-	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the International search

30 September 2003

Date of mailing of the international search report

09/10/2003

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C.(Continuation) DOCUMENTS CONSIDERED RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 060 810 A (LEE ET AL.) 9 May 2000 (2000-05-09) abstract column 3, line 25 -column 4, line 34; figures 3-6 ---	1,12,15
A	US 5 945 748 A (PARK ET AL.) 31 August 1999 (1999-08-31) abstract column 1, line 11-41 column 2, line 5-48; figures 1-9 -----	1,12,15

INTERNATIONAL SEARCH REPORT

Info. on patent family members

International application No

PCT/BR/00085

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5318412	A	07-06-1994	GB	2265674 A ,B		06-10-1993
			JP	2634755 B2		30-07-1997
			JP	6026457 A		01-02-1994
US 6077054	A	20-06-2000	CN	1221244 A ,B		30-06-1999
			JP	3027152 B2		27-03-2000
			JP	11252846 A		17-09-1999
JP 2002171740	A	14-06-2002	KR	2002039068 A		25-05-2002
			BR	0105353 A		25-06-2002
			CN	1354551 A		19-06-2002
			DE	10156298 A1		01-08-2002
			IT	MI20012436 A1		20-05-2003
US 6060810	A	09-05-2000	KR	2000008382 A		07-02-2000
			CN	1244743 A ,B		16-02-2000
			DE	19931394 A1		24-02-2000
			JP	3122433 B2		09-01-2001
			JP	2000050612 A		18-02-2000
US 5945748	A	31-08-1999	KR	230781 B1		15-11-1999
			KR	259801 B1		15-06-2000
			KR	259802 B1		15-06-2000
			KR	218481 B1		01-09-1999
			BR	9801434 A		07-12-1999
			CN	1200592 A ,B		02-12-1998
			DE	19818883 A1		18-02-1999
			JP	2935695 B2		16-08-1999
			JP	10323009 A		04-12-1998